WHAT IS CLAIMED IS:

- 1. A disc stabilization system, comprising:
 - a spinning disc having a disc surface that is deflectable by a shock;
 - a gas layer spinning adjacent the disc surface;
 - a wing feature including an aerodynamic surface positioned proximate the gas layer, which generates an aerodynamic force on the disc surface; and
 - a strut supporting the wing feature over the disc surface in a position such that the aerodynamic force increases as the disc surface deflects toward the aerodynamic surface.
- 2. The disc stabilization system of Claim 1 wherein the aerodynamic surface is supported by the strut to be less deflectable by the shock than the disc surface.
- 3. The disc stabilization system of Claim 1 wherein the aerodynamic force reduces a deflection of the disc surface due to the shock.
- 4. The disc stabilization system of Claim 1 wherein the disc surface deflects in an oscillatory motion due to the shock, and the aerodynamic force damps the oscillatory motion.
- 5. The disc stabilization system of Claim 1 wherein the spinning disc includes a second disc surface opposite the disc surface, and further comprises:
 - a second gas layer spinning adjacent the second disc surface;
 - a second wing feature including a second aerodynamic surface positioned proximate the second gas layer, which generates a second aerodynamic force on the second disc surface; and

- a second strut supporting the second wing feature over the second disc surface such that the second aerodynamic force increases as the disc surface deflects toward the second aerodynamic surface.
- 6. The disc stabilization system of Claim 1 wherein the spinning disc includes a second disc surface opposite the disc surface, and further comprises:
 - a head flying over the second disc surface opposite aerodynamic surface.
- 7. The disc stabilization system of Claim 1 wherein the disc comprises a data storage medium.
- 8. The disc stabilization system of Claim 1 wherein the wing feature is shaped to provided a desired ground effect force on the disc surface.
- 9. The disc stabilization system of Claim 1 wherein the aerodynamic force reduces coning of the spinning disc.
- 10. A method of stabilizing a spinning disc, comprising:
 - spinning a disc that has a disc surface that is deflectable by a shock, thereby driving a gas layer adjacent the disc surface to spin;
 - providing a wing feature with an aerodynamic surface that interacts with the gas layer to generate an aerodynamic force on the disc surface; and
 - supporting the wing feature over the disc surface with a strut in a position where the aerodynamic force increases as the disc surface deflects toward the aerodynamic surface.

11. The method of Claim 10 further comprising:

supporting the aerodynamic surface to be less deflectable than the disc surface.

- 12. The method of Claim 10 further comprising: reducing deflection of the disc surface with the aerodynamic force.
- 13. The method of Claim 10 further comprising:

 damping an oscillatory motion of the disc surface with the aerodynamic force.
- 14. The method of Claim 10 wherein the spinning disc includes a second disc surface opposite the disc surface, and the method further comprises:

spinning a second gas layer adjacent the second disc surface;

providing a second wing feature including a second aerodynamic surface positioned proximate the second gas layer, which generates a second aerodynamic force on the second disc surface; and

- providing a second strut supporting the second wing feature over the second disc surface such that the second aerodynamic force increases as the disc surface deflects toward the second aerodynamic surface.
- 15. The method of Claim 10 wherein the spinning disc includes a second disc surface opposite the disc surface, and the method further comprises:

flying a head over the second disc surface opposite the aerodynamic surface.

- 16. The method of Claim 10 wherein the disc comprises a data storage medium.
- 17. The method of Claim 10 further comprising:

shaping the wing feature to provided a desired ground effect force.

- 18. The method of Claim 10 further comprising:
 reducing coning of the spinning disc with the aerodynamic force.
- 19. A disc stabilization system, comprising:
 - a spinning disc having a disc surface that is deflectable by a shock;
 - a gas layer spinning adjacent the disc surface; and
 - means for interacting with the disc surface to provide an aerodynamic force to the disc surface that increases as the disc surface deflects toward the aerodynamic surface.
- 20. The disc stabilization system of Claim 19 wherein the disc comprises a data storage medium.
- 21. The disc stabilization system of Claim 19 wherein the means for interacting is shaped to provided a desired ground effect force on the disc surface.
- 22. The disc stabilization system of Claim 19 wherein the aerodynamic force reduces coning of the spinning disc.